

Recombinant Human AZIN1 Protein, N-His-tagged

Cat. No. AZIN1-08H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human AZIN1 Protein, fused to His-tag at N-terminus, was expressed in E. coli.

Species

Human

Source

E.coli

Description

The protein encoded by this gene belongs to the antizyme inhibitor family, which plays a role in cell growth and proliferation by maintaining polyamine homeostasis within the cell. Antizyme inhibitors are homologs of ornithine decarboxylase (ODC, the key enzyme in polyamine biosynthesis) that have lost the ability to decarboxylase ornithine; however, retain the ability to bind to antizymes. Antizymes negatively regulate intracellular polyamine levels by binding to ODC and targeting it for degradation, as well as by inhibiting polyamine uptake. Antizyme inhibitors function as positive regulators of polyamine levels by sequestering antizymes and neutralizing their effect. This gene encodes antizyme inhibitor 1, the first member of this gene family that is ubiquitously expressed, and is localized in the nucleus and cytoplasm. Overexpression of antizyme inhibitor 1 gene has been associated with increased proliferation, cellular transformation and tumorigenesis. Gene knockout studies showed that homozygous mutant mice lacking functional antizyme inhibitor 1 gene died at birth with abnormal liver morphology. RNA editing of this gene, predominantly in the liver tissue, has been linked to the progression of hepatocellular carcinoma. Alternatively spliced transcript variants have been described for this gene.

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Form	50 mM Tris-HCl, pH 8.0, 8 M urea.
Molecular Mass	21.2 kDa
AA Sequence	A DNA sequence encoding the region(Phe260-End) of AZIN1
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>0.05 µg/µl as determined by microplate BCA method.
Protein Families	Druggable Genome

GENE INFORMATION

Gene Name	AZIN1 antizyme inhibitor 1 [Homo sapiens (human)]
Official Symbol	AZIN1
Synonyms	AZI; AZI1; OAZI; AZIA1; OAZIN; ODC1L
Gene ID	51582
mRNA Refseq	NM_015878.5

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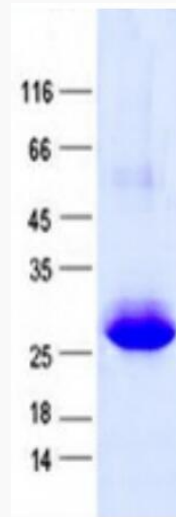


Protein Refseq NP_056962.2

MIM 607909

UniProt ID O14977

SDS-PAGE



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